

WHAT IS CLAIMED IS:

1. A power transmission device comprising:

a pulley to which a rotational power is transmitted via a belt;

5 a motor having a rotor;

a shaft to which a rotational power of the pulley and a rotational power of the rotor are transmitted;

a first one-way clutch including an inner ring, an outer ring, and engagement members disposed between the
10 inner ring and the outer ring, the first one-way clutch transmitting the rotational power of the pulley to the shaft when a rotational speed of the pulley is relatively higher than that of the rotating shaft; and

a second one-way clutch including an inner ring, an outer ring, and engagement members disposed between the
15 inner ring and the outer ring, the second one-way clutch transmitting the rotational power of the rotor to the shaft when the rotational speed of the rotor is relatively higher than that of the shaft;

20 wherein, in the second one-way clutch,

the inner ring has an engagement cylindrical surface in an outer periphery thereof and is rotatable together with the shaft;

the outer ring has an engagement cam-surface in an inner periphery thereof and is rotatable together with the rotor; and

the engagement members are engagement rollers
5 disposed between the engagement cylindrical surface of the inner ring and the engagement cam-surface of the outer ring.

2. The power transmission device according to claim 1, wherein, in the first one-way clutch,

10 the inner ring has an engagement cam-surface in an outer periphery thereof and is rotatable together with the shaft;

the outer ring has an engagement cylindrical surface in an inner periphery thereof and is rotatable
15 together with the pulley; and

the engagement members are engagement rollers disposed between the engagement cam-surface of the inner ring and the engagement cylindrical surface of the outer ring.

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3. The power transmission device according to claim 1, wherein, in at least one of the first one-way clutch and the second one-way clutch, the inner ring and the outer ring are provided with raceway surfaces adjacent the
25 engagement surfaces of the inner ring and the outer ring

and balls are disposed between these raceway surfaces so that a ball bearing portion is provided.

4. The power transmission device according to claim
5 2, wherein, in at least one of the first one-way clutch and
the second one-way clutch, the inner ring and the outer
ring are provided with raceway surfaces adjacent the
engagement surfaces of the inner ring and the outer ring
and balls are disposed between these raceway surfaces so
10 that a ball bearing portion is provided.